Electronically Amplified Stethascope (with recording and data terms for capabilities) BY GREGURY LOVIS HONER, 55#261-61-2437

Title of Invention: The Electronically Amplified Ste thoscope (with Optimal recording and data turnsten capability). [Henceforth texmed E.A.S.]

Type of Invention: To be patented 13 a Utility Patent. (Non provisional)

Specification of Invention: The named invention consists primarily of a microphoned drum, which teeds detected sound, via electrical wires, to an electrical amplifier, which by a battery power source, boosts said sounds in volume, which me then heard by the user, via electrically wired speakers in the form of a headset on err-inserts. The "Advanced Model" of the invention additionally includes a digital or compact disc recording device which intercepts said detected sounds and records them for later replay on transferance to any electronically powered data stronge device (such as a composter).

T, Stacey Burnworth, do hereby verity and acknowledge

(PAINT NAME)

GREGORY Lovis Hower (SS # 241-61-2437) to be the sole inventor

of the Electronically Amplified Stethescope.

12/15/03

Stacey Burnworth

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Statement Regarding Federally Sponsored Research on Development: This invention (the E.A.S.) was developed without the mid on 13513tmce of Jederal sponsoreship.

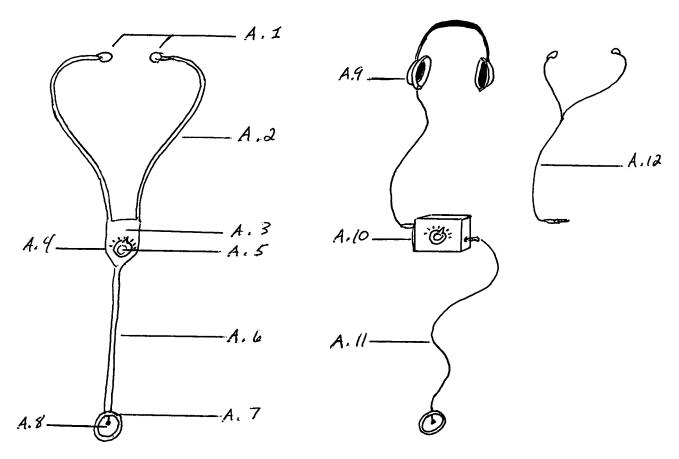
Brekgrand of the Invention: The E.A.S. is the product of the inventor's intention to improve upon the pre-existing design and usefulness of the 'stethiscope' is it is, and has been typically known. The claimed invention, in its' most basically proposed concept, is an improvement on the traditional stethiscope, by boosting the volume of its detected sunds, and in its more advanced state, allows for a recording (and storage) of such sounds.

The E.A.S. is intended to be used primmerly in the field of medicine, but may be applied to other obvious uses.

Brief Summmy of the Invention: The E. A.S. is made advancement upon the pre-existing non-electrical device commonly known is a "stethascape". The E. A.S. provides electrical amplitication of those sounds typically detected by a stethascape, using the addition of a battery powered microphone, implifient, volume control and headset speakers on exceptione fem-piece system.

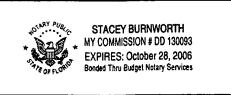
Driving of Invention:

The Electronishy Amplitied Stethersegre Con E. A.S.) in it's most basic form of design, is invented by Gregory Lovis Howen (55 # 261-61-2437). Hencefurth referenced as "Model A".



MODEL A of E.A.S.

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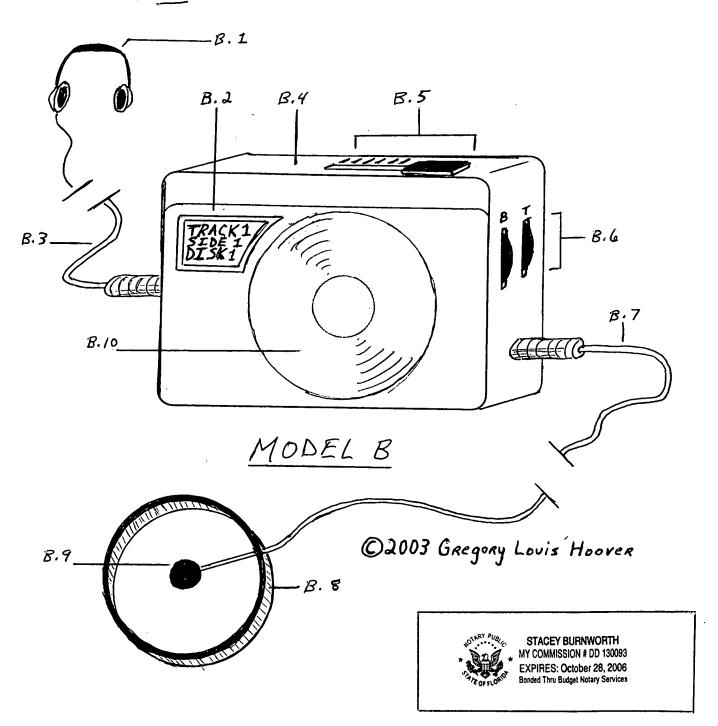
DRAWing of Invention:

The Electronically Amplified Stetherscape (on E.A.S.)

in it's Advanced Form of design, as invented by Gregory

Louis Hoover (55 # 261-61-2437). Hence Forth referenced

as "Model B."



(PAGE 4 of 14)

Brief Description of the Several Views of the

Demongs: The inventor hereby further describes the E.A.S. by the use of several drawings which show both the basic model (labeled "Model A") illustrated in two forms at page three (3), as well as the Advanced model (labeled "Model B") in an enlarged illustration at page form (4).

Each during of the E. A.S. described above, includes alphanumerical notations which coursespond to the following similarly listed items describing the treats, parts major tunctions referenced in said drawings.

Model A

As depicted by the illustrations found on page three (3).

A. I - Ex insects with on horsing emphones/em speakens.

A. 2 - Electrically wired harness providing electrical signal on "feed" from the Amplitica to the exephones.

A.3 - Battery powered implifier. To increase signal.

A. 4 - Battery comportment (behind panel on back on Reach of amplitien.



Model A (continued)

- A.5 Adjustable volume nob on dial. Used to increase on decrease the amplified signal on sound detected by the drummed microphone and fed to the emphases.
- A. le Electrically wined haveness providing electrical signal or "Leed" From the microphoned drum to the electric amplities.
- 1.7 Drum with thin, sound sensitive plastic memberne, containing on horsing minature microphone.
- A.8 Electronically wired miniature microphone used to detect sound vibrations within the drum (A-7) and send signal to the electric implifice.
- A. 9 Other example of listening system shown as herdset emphones.
- A.10 Other example of electrical amplifier. This
 illustration of the unit shows the amplifier

 As A single component which Allows for the
 use on replacement of seperate headphone listening
 systems and hamnessed drum (A.7), as well

 As permitting the unit to be ween by the user
 via 1 'clip-on' attachment.



Model A (continued)

- A.11 Electronically wixed homness providing electrical signal on feed from the microphened drum to the smplitien, but represented as separate plug-in device.
- A.12 Electrically wired homeness providing electrical signal on feed from amplition to exphone inserts, as opposed to headset, and as seperate plug-in device.

Model B As depicted by illustration fund on page form (4).

- B.1 Identical to that earlier described as depicted in A.1, A.2, A.9, md A.12.
- B.2 L.E.D. "Herek" m'd "side" indicator donoting storage location of digitally recording sounds on signals, detected, electromically reproduced and implified by the device.
- med Amplitied by the device.

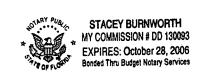
 B.3 Plug-in pontion of electrical wine leading from
 the E.A.S. to the headset on other listening
 device described earlier is depicted in A.I., A.Z.,

 md B.1.



Model B (continued)

- B.4 The "Advanced model" of the E.A.S. including a digital on compact disc recording system which pravides for storage of the sounds detected by the E.A.S. For turnstemmer (via the compact disc, on direct digital relay) of such data to a computer data base, or by reference to the individual recordings retained upon the discs.
- B.5 Sliding volume control on indicator. To be used to increase on decrease those sounds listened to via the E. A.S., As well to adjust the volume of the detected sounds as recorded.
- B.6. Base and Treble adjustment controls. To adjust the soustic base and treble levels for a retinement of the sounds hered and recorded.
- B.7 Identical to Short emilien described us depicted in A.11.
- B.8 Identical to that earlier described as depicted in A.7.
- B.9 Identical to that exclien described to depicted in A.8.



Model B (continued)

B.10 - Compact disc data storage system used to record shose sounds/signals detected by the E.A.S., For use as described emilien in B.4.

Detriked Description of the Invention:

The Electronically Amplified Stethascope (with optional Compact Disc on Digital Recording and data transfer capabilities) consists of a microphoned plastic memberated drum, which feeds detected sounds, via electrical wixes, to an electric amplifier, which in trans, by a battery powered source, boosts said sounds in volume, so that said sounds are more exily and clearly heard by the user, who listens through an attached headset, exaphones, on em-insent mini-speakers. The advanced model of the basic concept provides the additional function of permitting the user to clarity the sounds with both base and trueble revistir controls, as well as recording the detected sounds digitally on on compact disc.

The inventor requests the United States Patent med Trade Office determine it this concept and device design is so novel as to be considered an original

invention, on an improvement"
upon the traditional common 'stethascype'.



Detailed Description of the Invention: (continued) While it is the inventous desire and intention to be issued a Utility Patent on the described concept me device designs, should the USPTO determine sme to be in 'improvement' upon the common Stethascape, the inventor desixes that the USPTO Recieve and register the invention until such time that he USPTO makes that ("novel invention" on "improvement on a pre-existing invention") determination, in a momnen which assures med preserves the inventors legal rights normally attended under Ledeual law. The described invention is to be used primarily by med in the field of medicine, but also is directed to universal applications in my way the device(s) on concept may be used. The concept of the device (s) is to include both the microphoned dum Cillustrated and described As A.7, A.8, B.8, md B.9) and headphone on exc-insent speakens for listening purposes Cillustrated med described is A. I, A. 9, md B. I) to be attached to the main (E.A.S.) unit on device, via Returetable (As by the USE of A spring loaded spool) wires (described At A.2, A.12, med B.3), to be pulled at for use, Hen Returned back into the unit After use. STACEY BURNWORTH

MY COMMISSION # DD 130093 EXPIRES: October 28, 2006 Bonded Thru Budget Notary Services Detailed Description of the Invention: (continued) Several of the inventor's intended uses of the described invention, provide the following benefits: 1. The electronic implification of those sounds suprically intended to be detected and hered by physicoans med others in the medical field (who presently use the common stethiscope) will permit those who see hearing imprimed, to more clearly dicenn the sounds hoping to be heard. 2. The electrical implification of the sounds hered by the usen will allow for easien listening of those very slight and nearly in andible sounds (such as the hemetbent of m unbown child) by A simple increase of the implificus volume control. 3. The electrical amplification of the sounds head by the usen will pennit a cleaner hearing of such sounds in environments where brekgnound noise traditionally makes such listening more diff. icult Cie, Panamedies delivering medical sid at Roadside - treatise conditions, and military medical pensonel delivering sid under battle Field conditions). 4. The devices ability to offen she usen in option of increasing either the base on treble of the sounds heard will promote listening classify. MY COMMISSION # DD 130093

EXPIRES: October 28, 2006

Detailed Description of the Invention: (continued)

5. The concept and described (As well as illustrested) invention in it's "Advanced model" (depicted and described as 'Model B") provides the usen the option of (by various me thods) recording the sounds typically heard by the use of a common stetherscope. The invention in this form provides He usen the Additional benefit of storing these Recorded sounds for later uses (i.e., doctors cm keep tiles of patient heartbeats to record physical deterious Hon due to disense, on physical improvement due to medications, exercize or postsurguey. The stoned recordings com later be analyized by a physicims somply comparing more recent past examination. Such digital recordings may be fed into a competen which by an appropriate computer software program, mm malgire such recordings to detect irregular sound, so that He physicim may be sleated to a potential silment. Such digital recordings end be tremsmitted to on between physicims at differing locations Ivia internet I

